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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/022,689	12/17/2001	Eugene A. Fitzgerald	ASC-023DVC1	5381
7590 03/09/2005		EXAMINER		
Patent Administrator			SCHILLINGER, LAURA M	
•	& Thibeault, LLP			
High Street Tower			ART UNIT	PAPER NUMBER
125 High Street			2813	
Boston, MA 02110			DATE MAILED: 03/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/022,689	FITZGERALD, EUGENE A.			
Office Action Summary	Examiner	Art Unit			
	Laura M. Schillinger	2813			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEL	ely filed will be considered timely. the mailing date of this communication. () (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 13 De	ecember 2004.				
·— ·	_				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>35, 39-40, 44-45</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) 35,44 and 45 is/are rejected.					
7)⊠ Claim(s) <u>39 and 40</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents		-(d) or (f).			
<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau	•	a m me ranena etage			
* See the attached detailed Office action for a list		d.			
·					
Attachment(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ul>	Paper No(s)/Mail Da	ate atent Application (PTO-152)			
Paper No(s)/Mail Date <u>12/13/04</u> .	6) Other:				

#### **DETAILED ACTION**

## Claim Objections

Claims 39 and 40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 35, 44-45 are rejected under 35 U.S.C. 102(e) as being anticipated by Thakur et al ('511).

Thakur teaches the following claimed limitations as cited below:

- 35. A method of fabricating a semiconductor structure, the method comprising the steps of:
- a. providing a semiconductor substrate (Fig.2 (102))
- b. providing on said substrate a graded region incorporating a first type of strain (Col.3, lines:
- 30-45 and Col.3-4, lines: 59-15); and

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c. processing the graded region so as to introduce a second type of strain, the previously

incorporated first type of strain reducing the process-induced second type of strain (Col.3-4,

lines: 59-15).

44. The method of claim 35, further comprising the step of planarizing at least one surface of the

structure (Col.4, lines: 45-55).

45. The method of claim 35, wherein the first type of strain is compressive strain and the second

type of strain is tensile strain (Col.3-4, lines: 59-15).

Allowable Subject Matter

The following is a statement of reasons for the indication of allowable subject matter:

Claims 39 and 40 are deemed to be allowable over prior art because of one ordinary skill in the

art would not render the modification of Thakur ('511) to include the limitations of claims 39

and 40 as obvious, moreover prior art as a whole fails to teach the combination as required by

their dependency.

Response to Arguments

Applicant's arguments with respect to claims 35, 39-40, 44-45 have been considered but

are moot in view of the new ground(s) of rejection.

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#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M. Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LMS

03/05/05